

Satellite Antenna with integrated Single LNB SlimSat SA61

Satellite Antenna with integrated Twin LNB SlimSat SA62

Satellite antenna with integrated Quad LNB SlimSat SA64



User Manual



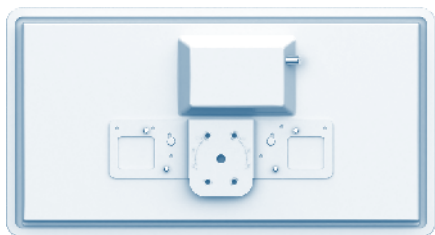
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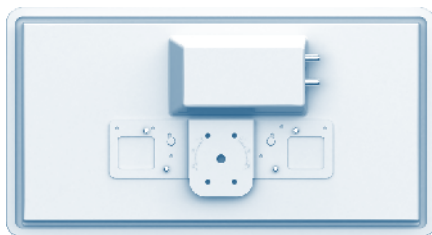
1.0 WHAT IS SLIMSAT?

SLIMSAT is a Horn Array Type Satellite Antenna with integrated LNB. It can receive signals from major Satellites and would replace a 65 cm parabolic dish. Small, discreet and easy to use, it can be installed in a few minutes and used as a portable antenna for all satellite receptions. SLIMSAT can be used for both Free-to-Air and encrypted (requiring a subscription with an operator) channel reception; it can also receive all High Definition channels with a superior image quality. For the use and installation, please read the following instructions and installation materials carefully.

SlimSat SA61 with integrated Single LNB
to connect to 1 satellite receiver



SlimSat SA62 with integrated Twin LNB
to connect to 2 satellite receivers



SlimSat SA64 with integrated Quad LNB
to connect to 4 satellite receivers



2.0 SAFETY INSTRUCTIONS

- Before using this product please read this manual carefully and follow exactly all installation, mounting & orientation instructions.
- All the instructions should be followed in order to avoid any technical problems.
- Any electric or magnetic field close to the SLIMSAT may cause a bad reception or even cut off the signal completely.
- Do not drill the plastic cover of the antenna, which seals the antenna from moisture.
- Handle the antenna with care as any impact will cause damage to the electronics.
- Do not open the cover, any attempt to repair by a non-qualified person can be dangerous and void the warranty.
- Any obstacle (buildings, trees, etc.) will block the reception of the signal from the satellite to the antenna.
- Do not paint or add any substance on the antenna cover, this will block the reception of the signal from the satellite.

- The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal.
- The use non- isolated jacks will result in a loss of the signal level.
- Do not forget to adjust the antenna and the bracket to the cross-polarity (skew angle please refer to chapter 3.4 step 4).
- Tighten all the screws of the antenna once you have finished the adjustments.
- This product contains the LNB, it is forbidden to add, change or modify the LNB.
- For more precise details on the above points or for any information, please ask your retailer or customer service.



Warning!!!

Antennas improperly installed to an inadequate structure are very susceptible to wind damage. This Damage can be very serious or even life threatening. The owner and installer assumes full responsibility that the installation is structurally sound to support all loads (weight, wind & ice) and properly sealed against leaks. The manufacturer will not accept liability for any damage caused by a satellite system due to the many unknown variable applications.

3.0 HOW TO INSTALL?

By following the instructions step by step you can proceed easily to install SLIMSAT by yourself or with the help of a professional antenna installer.

Before installing your antenna check that the SLIMSAT box contains all items listed in the chapter 'Box Content'. In the event of any missing parts, please contact your distributor.

3.1 Step 1: Where to Install?

In order to receive a signal from the Satellite, SLIMSAT is to be installed in an open loop space (outside the house or the apartment), in the direction of the satellite towards the equator, for which, you will need a compass to exactly orient SLIMSAT toward the satellite (Note; please take reference to the table of the Azimuth angles specified in the back pages of this manual)



Note

To ensure accurate compass reading, stay away from large metal objects, specifically electrical cables and then make multiple readings

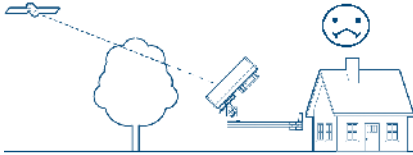


Make sure that there are no obstacles in front of SLIMSAT which can decrease the signal reception quality, such as buildings, or trees (you may keep in mind that trees will grow and may block the signal).

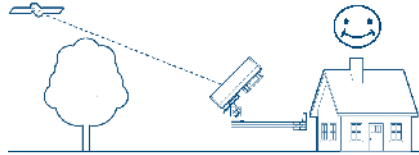
In order to be able to fix and install your antenna easily you might choose an easily accessible place without any potential danger for installation.

Think about the way you might pass your cable in a discreet way from the SLIMSAT to your Set top Box. The antenna should not be too distant from your satellite receiver; a cable longer than 30 meters can decrease the quality of the signal.

Bad Quality Signal Reception



Good Quality Signal Reception



3.2 Step 2: Installation

In order to install your new antenna, you need to find the skew, elevation and azimuth angle by referring to the table in the appendix of this manual. If you can't find your location, please refer to the information of the place nearest to your location. This manual will show you the installation example for the reception of ASTRA1 satellite in Brest region of France.

The angle information for Brest region is

Skew: -19.7°

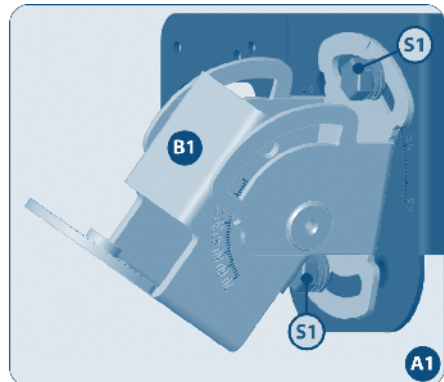
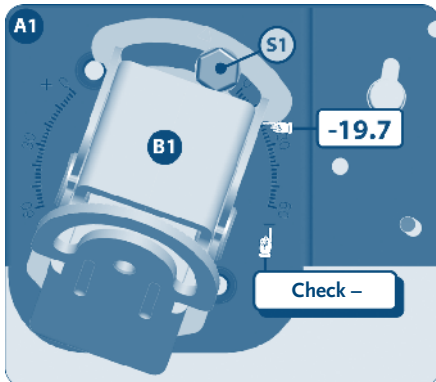
El: 30°

Az: 149.6°

Part Assembly

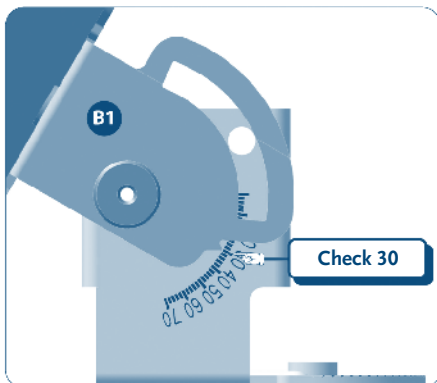
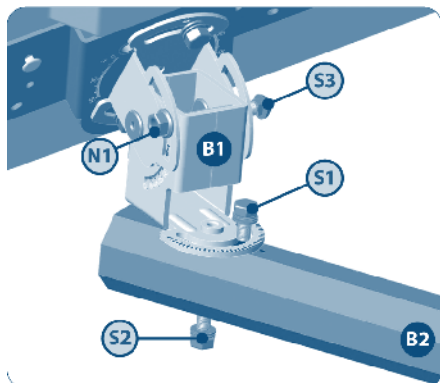
1. Fixing the Skew (Joint of Angle Bracket and Antenna Body)

Join the Angle Bracket and Antenna Body with the supplied screw and adjust the skew angle to -19.7 .



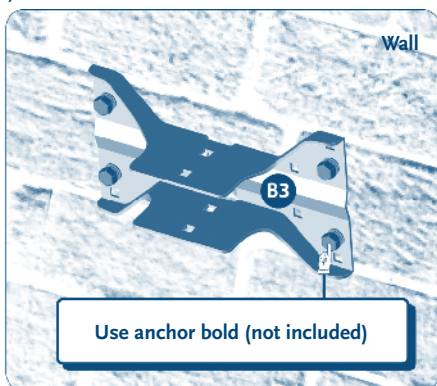
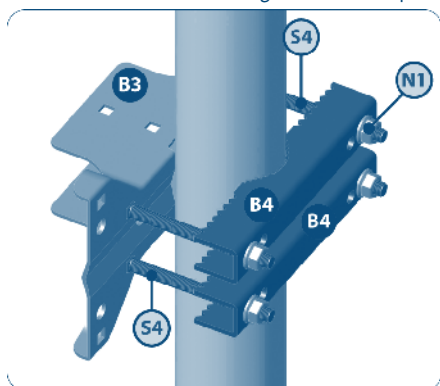
2. Fixing the Elevation (Joint of Antenna Body and Main Support)

For the purpose of delicate adjustment of the elevation and azimuth angle, please don't fix the bolt and nut tightly.



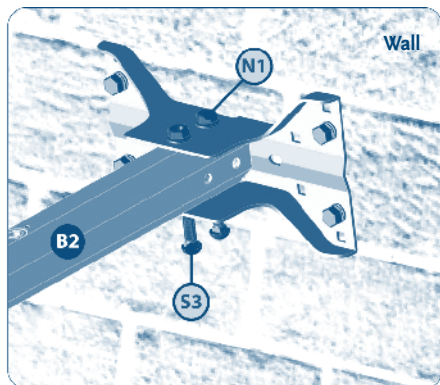
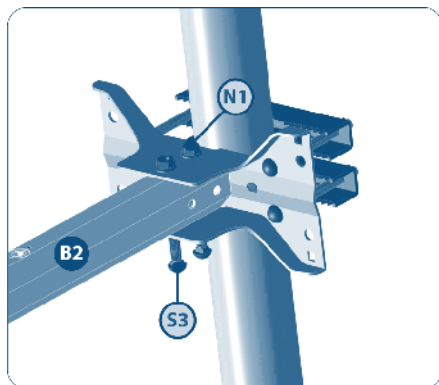
3. Installation of Fixing Bracket A

When installing Fixing Bracket A (B3), please consider the place of installation (clamp type, wall mounting type). Make sure that the direction of the bracket is towards satellite. In order to support the weight of the antenna, nut (N1) should be fixed as tightly as possible. Please purchase the anchor bolt for wall mounting installation separately.



4. Joining of the Antenna Body and Fixing Bracket A (B3)

Join the assembled Antenna Body and Fixing Bracket A. In order to support the weight of the antenna, nut (N1) should be fixed as tightly as possible.



3.3 Step 3: Connecting the Antenna and the Set top box

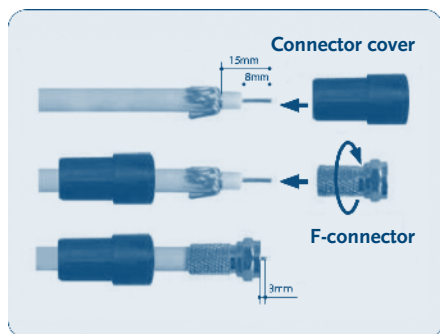
Once you have installed the antenna in an open loop space and mounted the way you want it to be the next step is to connect it all together.

In order to be able to watch your favourite satellite programs, you need to connect your satellite antenna to a receiver by a cable.

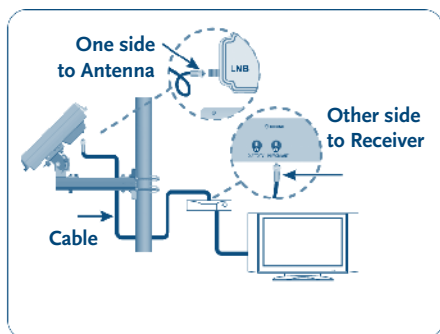
The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal.

The use of a long or bad quality cable and not isolated jacks can cause a loss of the signal level, it would be preferable to use an RG6 Coaxial cable (HF 17VATC or 19VATC cable), in order to minimise a signal loss.

How to prepare the cable?



How to connect the cable to the antenna and the set top box?



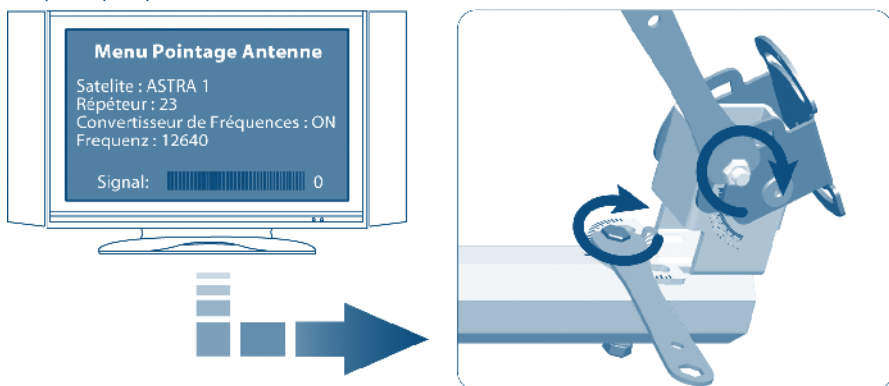
It is important that the coaxial cable does not become damaged or kinked during the installation procedure.

3.4 Step 4: Fine Tuning and Fixing the Bracket

Once fine tuning for signal reception is completed, please tighten all bolts and nuts.

Once all connections are made, turn on the TV and the satellite receiver, select the Antenna Pointing Menu on your receiver and check the signal level on your TV. Do not forget to choose “LNB: ON”. Someone will need to stay in front of the TV to tell you when the signal is “good” while you’re outside adjusting the antenna the best way possible.

The signal level and quality is indicated on the TV screen and will fluctuate and change colour according to the adjustment & movement of the antenna while you are pointing & finding (azimuth, elevation angle). The level indicates the power of the signal and the colour indicates the signal reception quality from the chosen satellite.



4.0 TROUBLESHOOTING CHECK LIST FOR INITIAL INSTALLATION

If the signal is not found, be sure the receiver user manual and the antenna user manual have been followed closely, check the following:

- Make sure all cable connections are correct and each connection is seated / tightened properly.
- Inspect the inside of each cable connector for dirt or possible connector to case / shield short.
- Verify the Azimuth, Elevation and Tilt angles for your location by ZIP code.
- Make sure the Tilt and Elevation pointers are aligned correctly to the scales. Do not use washer or bolt as reference.
- Make sure the Tilt adjustment is not changed from the recommended settings for the antenna location.
- Remove existing TV-specific components, such as TV splitter, etc; reduce the installation to the basic connections called out in this guide. Such components may not work with the satellite signal and they may be in the wall where you can't see them. When in doubt, run RG6 cable directly to your receiver.
- Make sure there are no obstructions (trees, buildings, windows, corner or overhang of your roof, your body or hands) – the signal does not pass leaves, branches, glass, etc.
- RG6 cable with solid copper center conductor is highly recommended because it has much lower DC voltage drop compared to RG 6 cable with a copper-coated, steel center conductor.
- Standard RG 59 cable causes too much DC drop and signal drop; it can not be used to pass the satellite signal. RG 6 coaxial cable must be used.

- Some after market, off-the-shelf add-on components may not be as advertised. They might not work or could cause additional DC drops and signal amplitude attenuation. Remove such components, go back to the basic connections called out in this manual and re-verify.
- Make sure the satellite cable is connected to the “SAT IN” jack, not the “ANTENNA IN” jack. The “ANTENNA IN” jack at the back of the receiver is for all off-air antenna input or cable TV input.
- If all are done correctly but the signal is still not found change the Elevation adjustment of the antenna slightly ($\pm 2^\circ$, then $\pm 4^\circ$ from the called-for setting) and repeat the procedure.
- Make sure the Access Card from your receiver is fully inserted into the Access Card slot and oriented correctly.

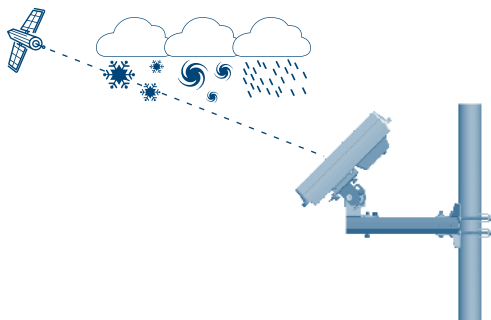
5.0 LOSS OF SIGNAL / RAIN FADE

The satellite signal may be lost temporarily due to unusual heavy rainfall. An optimal aligned antenna, along with the shortest possible cable run, minimizes the chances of “rain fade”.

Make sure the antenna is mounted securely to prevent it from being blown out of alignment in a heavy wind.

Heavy snow accumulation on the antenna may reduce the satellite signal strength; snow should be swept away as soon as possible.

Tree foliage growth into antenna's line-of-sight to the satellite may result in gradual loss of picture.



6.0 INSTALLATION USING LONG CABLE

For installations where the RG 6 cables run from the receiver(s) to the LNB far exceeds 100 feet (150 feet or more), as encountered in a commercial or multi-dwelling building, you need to use an AC power booster module to bias the LNB.

You will also need an additional RF signal amplifier to compensate the signal amplitude loss.

Otherwise, your antenna and receiver may not work properly and be subject to frequent outages in adverse weather. Contact a professional concerning such installations.



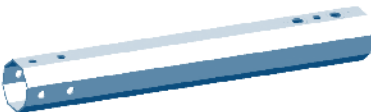
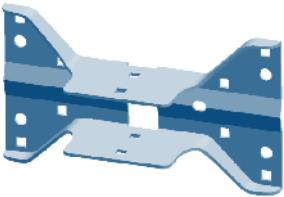
7.0 TECHNICAL SPECIFICATION




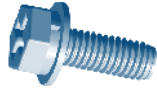
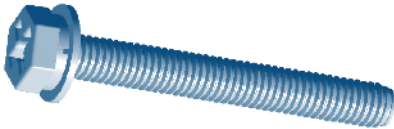
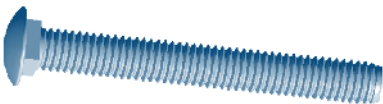
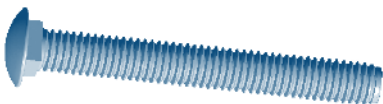

Input Satellite Frequency:	10.7 ~ 12.75 GHz
Polarisation:	Dual Linear (Horizontal & Vertical)

Antenna Gain:	33.7 dBi at 12.7 GHz
Dimensions (W x H x D):	51.7 x 27.7 x 8.2 cm
LNB:	Model SA61: Single LNB integrated Model SA62: Twin LNB integrated Model SA64: Quad LNB integrated
LNB Output Frequency:	950 – 1,950 / 1,100 – 2,150 MHz
LNB voltage:	Vertical 9 – 14.5 V (typ. 13 V) Horizontal 15.5 – 24 V (typ. 18 V)
Operating Temperature:	-30 ~ +60 °C
Gross weight:	4.5 kg
Net weight:	2.7 kg

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A.1 BOX CONTENT

No	Symbol	Part name	Image	Quantity
1	A1	Antenna Body		1
2	B1	Skew Bracket		1
3	B2	Main Support		1
4	B3	Fix Bracket A		1

No	Symbol	Part name	Image	Quantity
5	B4	Fix Bracket B		2
6	B5	Spanner		1
7	C1	Compass		1
8	S1	Screw M6x18 SEMS2		3
9	S2	Screw M6x50 SEMS2		1
10	S3	Round Head Square Neck Bolt M6x50		3
11	S4	Round Head Square Neck Bolt M6x75		4
12	N1	Flanged Nut M6		7

A.2 APPENDIX

Great Britain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk=Skew

		Turk sat IC,2A	Astra 2A/2B/ 2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/B/7A /B	Atlant icbird 3	Hispasat IC,1D			Turk sat IC,2A	Astra 2A/2B/ 2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/B/7A /B	Atlant icbird 3	Hispasat IC,1D
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Aberdeen wL 2.1 B + 57.1	Az	130.9	145.2	155.1	162.2	183.5	212.2	Iwerness wL 4.2 B + 57.5	Az	129.0	143.0	152.8	159.8	180.9	209.8
	El	14.6	19.8	22.4	23.7	25.0	20.8		El	13.4	18.8	21.5	22.9	24.6	20.8
	Sk	-24.2	-18.1	-13.2	-9.6	1.9	16.8		Sk	-24.7	-18.9	-14.2	-10.7	0.5	15.5
Delft wL 5.9 B + 54.6	Az	126.3	140.2	150.1	157.2	178.9	208.7	Kingsdon upon hull wL 0.33 B + 53.75	Az	131.5	146.0	156.3	163.6	185.8	215.2
	El	14.4	20.5	23.7	25.4	27.7	24.0		El	17.6	23.4	26.1	27.4	28.5	22.9
	Sk	-27.8	-21.7	-16.8	-13.0	-0.6	16.2		Sk	-26.3	-19.3	-13.8	-9.5	3.4	20.0
Birmingham wL 1.8 B + 52.5	Az	129.6	143.9	154.1	161.5	184.0	214.0	Leeds wL 1.6 B + 53.8	Az	130.3	144.7	154.8	162.1	184.2	213.8
	El	17.8	23.9	26.9	28.4	29.9	24.8		El	17.0	22.8	25.7	27.1	28.5	23.3
	Sk	-28.0	-21.0	-15.4	-11.1	2.5	19.9		Sk	-26.8	-20.0	-14.6	-10.5	2.5	19.2
Bradford wL 1.8 B + 53.8	Az	130.1	144.5	154.6	161.9	184.0	213.7	Liverpool wL 2.9 B + 53.4	Az	128.8	143.1	153.2	160.4	182.6	212.5
	El	16.9	22.8	25.7	27.1	28.5	23.4		El	16.6	22.7	25.7	27.3	29.0	24.1
	Sk	-26.9	-20.1	-14.7	-10.6	2.3	19.1		Sk	-27.7	-21.0	-15.6	-11.5	1.6	18.7
Bristol wL 2.6 B + 51.5	Az	128.1	142.7	152.9	160.4	183.1	213.6	Leicester wL 1.08 B + 52.63	Az	130.4	144.8	155.1	162.4	184.9	214.8
	El	18.1	24.5	27.7	29.3	31.1	25.8		El	18.1	24.1	27.0	28.4	29.7	24.2
	Sk	-29.2	-22.2	-16.5	-12.1	1.9	20.1		Sk	-27.6	-20.5	-14.8	-10.5	3.0	20.3
Cardiff wL 3.16 B + 51.48	Az	127.9	142.1	152.3	159.7	182.4	212.9	London wL 0.2 B + 51.5	Az	130.8	145.4	155.8	163.4	186.2	216.2
	El	17.8	24.3	27.5	29.2	31.1	25.9		El	19.3	25.4	28.3	29.8	30.9	24.8
	Sk	-29.4	-22.5	-16.9	-12.5	1.5	19.8		Sk	-28.1	-20.7	-14.8	-10.3	3.8	21.6
Chichester wL 0.778 B + 50.83	Az	130.0	144.5	154.9	162.4	185.4	213.8	Manchester wL 2.3 B + 53.5	Az	129.5	143.8	154.0	161.3	183.4	213.2
	El	19.4	25.8	28.9	30.4	31.5	25.6		El	16.9	22.9	25.8	27.3	28.9	23.8
	Sk	-29.0	-21.5	-15.6	-11.0	3.4	21.7		Sk	-27.3	-20.6	-15.2	-11.1	2.0	19.0
Coverly wL 1.5 B + 52.42	Az	129.9	144.3	154.5	161.9	184.4	214.4	Newcastle upon Tyne wL 1.6 B + 55.0	Az	130.7	145.0	155.1	162.4	184.1	213.4
	El	18.0	21.1	27.0	28.6	30.0	24.5		El	16.2	21.8	24.5	25.9	27.2	22.3
	Sk	-27.9	-20.9	-15.2	-10.9	2.7	20.2		Sk	-25.8	-19.2	-14.0	-10.0	2.4	18.4
Dover eL 1.3 B + 51.1	Az	132.1	146.9	157.5	165.1	188.1	218.0	Nottingham wL 1.3 B + 52.6	Az	132.7	147.4	157.9	165.4	187.9	217.4
	El	20.3	26.3	29.1	30.5	31.2	24.6		El	19.2	24.9	27.6	28.9	29.6	23.3
	Sk	-27.8	-20.1	-13.9	-9.3	5.1	22.7		Sk	-26.5	-19.1	-13.2	-8.8	4.8	21.7
Edinburgh wL 3.2 B + 56.0	Az	129.4	143.6	153.6	160.7	182.2	211.4	Reading wL 1.3 B + 52.9	Az	130.2	144.6	154.9	162.3	184.6	214.5
	El	14.8	20.4	23.2	24.6	26.2	21.9		El	17.8	23.7	26.6	28.1	29.5	24.0
	Sk	-25.6	-19.4	-14.4	-10.7	1.2	16.9		Sk	-27.4	-20.4	-14.8	-10.6	2.8	20.0
Glasgow wL 4.2 B + 55.9	Az	128.1	142.5	152.4	159.5	180.9	210.2	Sheffield wL 1.5 B + 53.4	Az	126.5	140.5	150.7	158.1	181.0	212.1
	El	14.4	20.1	23.0	24.5	26.4	22.3		El	17.9	24.7	28.2	30.0	32.3	27.3
	Sk	-26.0	-19.9	-15.1	-11.3	0.5	16.4		Sk	-30.8	-23.9	-18.2	-13.8	0.7	19.8
Greenwich eL 0 B + 51.48	Az	131.0	145.8	153.0	158.0	186.4	216.4	Southampton wL 1.38 B + 50.9	Az	129.6	144.1	154.5	162.0	185.0	215.5
	El	19.4	25.5	28.4	28.4	30.9	24.7		El	19.3	25.6	28.7	30.3	31.7	25.8
	Sk	-28.0	-20.6	-14.7	-14.7	4.0	21.7		Sk	-29.1	-21.8	-15.8	-11.2	3.2	21.5
Swansea wL 4.0 B + 51.6	Az	127.1	141.2	151.3	158.7	181.3	211.9		Az	130.2	144.6	154.8	162.1	184.4	214.1
	El	17.3	23.8	27.1	28.8	31.0	26.1		El	17.3	23.2	26.1	27.6	28.9	23.7
	Sk	-29.7	-22.9	-17.3	-13.1	0.8	19.2		Sk	-27.1	-20.2	-14.7	-10.5	2.6	19.5
Wolverhampton wL 2.2 B + 52.6	Az	129.2	143.8	153.7	161.1	183.5	213.6		Az	129.4	143.8	154.2	161.7	184.7	215.1
	El	17.5	23.6	26.7	28.2	29.8	24.6		El	19.1	25.5	28.6	30.1	31.6	25.8
	Sk	-28.1	-21.2	-15.6	-11.3	2.1	19.6		Sk	-29.2	-21.8	-15.9	-11.4	2.9	21.3
York wL 1.08 B + 53.95	Az	130.9	145.3	155.4	162.6	184.8	214.4								
	El	17.2	22.9	25.7	27.1	28.3	23.0								
	Sk	-26.4	-19.6	-14.2	-10.0	2.9	19.4								

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Germany

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk : Skew

		Turk sat	Astra 2A/2B /2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird	Hipsa sat			Turk sat	Astra 2A/2B /2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird	Hipsa sat
		IC,2A	Euro bird 1	2C	3	IC,1D				IC,2A	Euro bird 1	2C	3	IC,1D	
		42.0 E	28.2 E	19.2 E	13.0 E	6.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	6.0 W	30.0 W
Aachen eL 6.1 B + 50.8	Az	136.9	152.3	163.3	171.1	194.2	223.2	Frankfurt am Main eL 8.7	Az	136.4	155.2	166.4	174.4	197.6	226.2
	Sk	-25.6	-17.1	-10.5	-5.6	8.9	25.7	B + 50.1	El	24.5	29.6	31.7	32.4	31.1	22.0
Aalen eL 10.1 B + 48.8	Az	140.4	156.5	168.0	176.2	199.7	226.2	Freising eL 11.8	Sk	-24.7	-15.6	-8.7	-3.6	11.2	27.6
	El	26.2	31.3	33.3	33.9	32.1	22.2	B + 48.4	Az	142.1	158.5	170.1	178.3	201.9	230.0
	Sk	-24.8	-15.2	-7.9	-2.5	12.9	29.4		El	27.3	32.2	34.0	34.4	32.1	21.6
Aschaffenburg eL 9.2 B + 50.0	Az	139.9	155.7	167.0	175.0	198.2	226.8	Göttingen eL 9.9	Sk	-24.1	-14.1	-6.5	-1.1	14.4	30.6
	Fl	24.8	29.9	31.9	32.6	31.2	21.9	B + 51.5	Az	141.3	157.1	168.2	176.1	198.8	226.9
	Sk	-24.4	-15.3	-8.9	-3.2	11.7	27.9		Fl	23.9	28.6	30.4	31.0	29.4	20.4
Augsburg eL 10.9 B + 48.4	Az	141.1	157.4	169.0	177.2	200.9	229.2	Hamburg eL 10.0	Sk	-22.9	-14.0	-7.3	-2.5	11.6	27.0
	El	26.9	32.0	33.9	34.4	32.4	22.1	B + 53.6	Az	142.2	157.8	168.7	178.3	198.5	226.2
	Sk	-24.6	-14.8	-7.3	-1.9	13.7	30.2		El	22.2	26.6	28.3	28.8	27.3	18.8
Bad Herfeld eL 9.7 B + 50.9	Az	140.8	156.7	167.8	175.8	198.7	227.0	Heide eL 9.1	Sk	-21.3	-13.0	-6.7	-2.2	10.8	25.4
	El	24.3	29.2	31.1	31.7	30.1	20.9	D + 54.2	Az	141.4	156.9	167.5	175.2	197.2	225.1
	Sk	-23.5	-14.5	-7.6	-2.7	11.7	27.4		El	21.3	25.7	27.5	28.0	26.8	18.8
Bad Homburg eL 8.6 B + 50.2	Az	139.4	155.2	166.3	174.3	197.5	226.1	Heidelberg eL 8.7	Sk	-21.4	-13.3	-7.2	-2.8	10.0	24.5
	El	24.4	29.5	31.6	32.3	31.0	21.9	B + 49.4	Az	139.1	155.0	166.3	174.3	197.8	226.5
	Sk	-24.6	-15.6	-8.7	-3.7	11.1	27.5		El	25.1	30.3	32.5	33.2	31.9	22.5
Bad Neuenahr eL 7.1 B + 50.6	Az	137.9	153.5	164.5	172.4	195.5	224.4	Ho eL 11.8	Sk	-25.2	-16.0	-8.9	-3.7	11.5	28.2
	El	23.5	28.8	31.0	31.8	31.0	22.4	B + 50.3	Az	143.0	159.2	170.5	178.6	201.6	229.4
	Sk	-25.2	-16.5	-9.8	-4.8	9.8	26.4		El	25.7	30.3	31.9	32.3	30.2	20.2
Baden- Baden eL 8.2 B + 48.8	Az	138.4	154.2	165.6	173.7	197.4	226.3	Köln eL 7.0	Sk	-22.6	-13.1	-6.0	-0.9	13.6	29.0
	El	25.4	30.8	33.1	33.9	32.6	23.2	B + 51.0	Az	137.9	153.4	164.4	172.2	195.2	224.1
	Sk	-26.0	-16.7	-9.5	-4.2	11.3	28.4		El	23.1	28.3	30.5	31.4	30.6	22.2
Bamberg eL 10.9 B + 49.9	Az	141.7	157.8	169.2	177.2	200.4	228.5	Lübeck eL 10.7	Sk	-24.9	-16.3	-9.7	-4.8	9.6	26.6
	El	25.6	30.5	32.3	32.8	30.8	21.0	B + 53.9	Az	143.0	158.7	169.5	177.1	199.2	228.0
	Sk	-23.5	-14.1	-6.9	-1.8	13.0	29.9		El	22.2	26.4	28.0	28.5	26.8	18.3
Berlin eL 13.4 B + 54.4	Az	146.2	162.0	172.9	180.5	202.3	229.3	München eL 11.6	Sk	-20.8	-12.4	-6.2	-1.7	11.2	25.4
	El	22.7	26.5	27.7	27.9	25.7	16.7	B + 48.1	Az	141.7	158.1	169.8	178.1	201.8	230.0
	Sk	-18.9	-10.4	-4.1	0.3	12.7	26.2		El	27.4	32.4	34.2	34.7	32.4	21.9
Berlin eL 13.4 B + 52.5	Az	145.5	161.6	172.7	180.5	202.8	230.0	Münster eL 8.9	Sk	-24.4	-14.4	-6.8	-1.3	14.4	30.8
	El	24.4	28.4	29.7	30.0	27.6	18.0	B + 49.9	Az	139.5	155.4	166.6	174.6	197.9	226.5
	Sk	-20.2	-11.1	-4.4	0.3	13.6	27.6		El	24.7	29.9	31.9	32.6	31.3	22.0
Bingen eL 9.3 B + 48.1	Az	139.2	155.3	166.8	175.0	198.9	227.7	Nienburg eL 11.8	Sk	-24.7	-15.6	-8.6	-3.5	11.4	27.9
	El	26.4	31.8	33.9	34.6	33.0	23.1	B + 51.8	Az	143.5	159.4	170.6	178.4	201.0	228.6
	Sk	-25.9	-16.2	-8.8	-3.3	12.5	29.6		El	24.4	28.7	30.3	30.7	28.7	19.2
Bonn eL 7.1 B + 50.7	Az	138.0	153.5	164.5	172.4	195.5	224.3	Offenburg eL 8.0	Sk	-21.6	-12.5	-5.8	-0.9	12.8	27.7
	El	23.3	28.6	30.8	31.6	30.8	22.3	B + 48.5	Az	137.9	153.8	165.1	173.3	197.1	226.2
	Sk	-25.1	-16.4	-9.7	-4.8	9.7	26.3		El	25.5	31.0	33.3	34.2	33.0	23.6
Bremen eL 8.6 B + 53.1	Az	140.7	156.2	167.1	174.8	197.1	225.2	Passau eL 13.5	Sk	-28.3	-17.0	-9.8	-4.4	11.3	28.6
	El	22.1	26.8	28.6	29.2	26.0	19.7	B + 48.6	Az	144.1	160.7	172.4	180.6	204.0	231.2
	Sk	-22.4	-14.0	-7.7	-3.2	10.2	25.2		El	27.9	32.5	34.0	34.3	31.5	20.6
Chemnitz eL 12.9 B + 50.8	Az	144.3	160.6	171.9	179.9	202.6	230.2	Regensburg eL 12.1	Sk	-22.8	-12.6	-5.0	0.4	15.6	31.3
	El	25.7	30.0	31.5	31.8	29.4	19.4	B + 54.1	Az	144.7	160.4	171.3	178.9	200.8	228.2
	Sk	-21.6	-12.2	-5.1	-0.1	14.1	29.0		El	22.6	23.5	27.9	28.3	26.3	17.5
Deggendorf eL 13.0 B + 48.8	Az	143.6	160.1	171.7	180.0	203.3	231.1	Traunstein eL 12.7	Sk	-19.8	-11.4	-5.1	-0.7	12.0	25.9
	El	27.4	32.1	33.7	34.0	31.4	20.7	B + 47.9	Az	142.8	159.4	171.2	179.5	203.2	231.2
	Sk	-23.0	-12.9	-5.4	0.0	15.1	30.8		El	28.1	33.0	34.7	35.0	32.4	21.5
Dortmund eL 7.5 B + 51.5	Az	138.7	154.2	165.1	172.9	195.8	224.4	Ulm eL 10.0	Sk	-23.9	-13.6	-6.8	-0.3	15.4	31.5
	El	22.8	27.9	30.0	30.8	29.9	21.5	B + 48.4	Az	140.1	156.2	167.8	176.0	198.7	227.3
	Sk	-24.3	-15.7	-9.2	-4.4	9.8	25.8		El	26.5	31.7	33.7	34.4	32.6	22.6
Düsseldorf eL 6.8 B + 51.2	Az	137.8	153.3	164.2	172.0	195.0	223.8	Wesel eL 6.6	Sk	-25.2	-15.5	-8.1	-2.7	12.9	29.7
	El	22.8	28.0	30.2	31.1	30.3	22.1	B + 51.7	Az	137.8	153.2	164.1	171.9	194.7	223.5
	Sk	-24.9	-16.4	-9.8	-5.0	9.3	25.7		El	22.3	27.5	29.7	30.6	29.9	21.8
									Sk	-24.6	-16.2	-8.8	-5.0	9.0	25.2

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

France

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk = Skew

		Turk sat	Astra 2A/2B/ 2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/5/7A /B	Atlant icbird	Hipsa sat			Turk sat	Astra 2A/2B/ 2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/5/7A /B	Atlant icbird	Hipsa sat
		1C,2A	Euro bird 1		3	3	1C,1D			1C,2A	Euro bird 1		3	3	1C,1D
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Amiens	Az	132.6	147.8	158.3	166.1	189.5	219.5	Mulhouse	Az	136.9	152.7	164.1	172.4	195.5	225.9
eL 2.3	El	21.6	27.7	30.6	31.9	32.4	25.1	eL 7.3	El	25.8	31.6	34.1	35.0	33.9	24.5
B + 49.9	Sk	-28.3	-20.2	-13.8	-8.9	6.1	24.2	B + 47.7	Sk	-27.4	-18.0	-10.6	-5.1	11.0	28.9
Angers	Az	128.7	143.3	154.0	161.9	186.0	217.4	Nancy	Az	136.2	151.7	162.9	171.0	194.8	224.3
wL 0.6	El	21.8	28.7	32.2	33.6	35.3	28.4	el 6 P: R +	El	24.5	30.2	32.8	33.7	33.1	24.3
B + 47.5	Sk	-31.8	-23.8	-17.2	-12.1	4.0	24.2	48.7	Sk	-27.2	-18.2	-11.2	-5.9	9.7	27.4
Angoulême	Az	128.6	143.3	154.3	162.3	187.2	219.1	Nantes	Az	127.6	142.1	152.7	160.5	184.6	216.4
eL 0.2	El	23.4	30.6	34.2	35.9	37.2	29.6	wL 1.6	El	21.4	28.5	32.1	33.9	35.6	29.1
B i 45.7	Sk	-33.1	-24.7	-17.7	-12.3	5.1	26.2	B i 47.2	Sk	-32.5	-24.7	-18.2	-13.1	3.1	23.8
Arras	Az	133.3	148.3	159.0	166.6	190.1	219.9	Nizza	Az	135.0	151.0	163.0	171.7	197.5	227.8
eL 2.8	El	21.6	27.6	30.4	31.6	31.9	24.6	wL 7.3	El	28.9	35.4	38.3	39.3	38.1	27.4
R + 50.3	Sk	-27.7	-19.6	-13.2	-8.4	6.4	24.2	R + 43.7	Sk	-30.8	-20.5	-12.2	-6.0	12.6	32.4
Bayonne	Az	128.8	143.7	155.1	163.5	189.4	221.8	Orléans	Az	131.4	146.3	157.2	165.1	189.2	220.0
eL 1.5	El	25.8	33.3	37.0	38.7	39.6	30.9	eL 1.9	El	22.8	29.4	32.5	33.9	34.6	27.0
B + 43.3	Sk	-34.6	-25.5	-17.9	-12.0	6.9	29.0	B + 47.9	Sk	-30.2	-21.8	-15.1	-9.9	6.2	25.5
Belfort	Az	136.4	152.1	163.5	171.7	195.8	225.4	Paris	Az	132.2	147.2	158.1	166.0	189.7	220.0
eL 6.8	El	25.6	31.5	34.0	35.0	34.1	24.8	eL 2.3	El	22.4	28.7	31.7	33.1	33.5	26.0
B + 47.6	Sk	-27.7	-18.4	-11.1	-5.8	10.6	28.7	B + 48.9	Sk	-29.2	-20.9	-14.2	-9.2	6.3	25.0
Bordeaux	Az	127.5	142.1	153.0	161.1	186.3	218.7	Quimper	Az	125.5	139.6	149.9	157.4	181.1	213.1
wL 0.5	El	23.5	31.0	34.8	36.6	38.2	30.7	wL 4.2; B	El	19.4	26.7	30.5	32.4	34.9	29.5
B + 44.8	Sk	-34.2	-25.9	-18.8	-13.3	4.4	26.3	+ 48.0	Sk	-33.0	-25.7	-19.6	-14.9	0.7	21.4
Boulogne	Az	132.3	147.1	157.7	165.4	184.4	214.9	Reims	Az	134.1	149.3	160.3	168.2	191.8	221.7
wL 1.6	El	20.8	26.8	29.6	31.0	31.8	26.1	eL 4.0	El	23.0	29.0	31.7	32.9	32.9	24.9
B + 50.7	Sk	-27.9	-20.1	-13.9	-9.2	2.8	21.3	B + 49.3	Sk	-27.9	-19.4	-12.7	-7.7	7.7	25.7
Brest	Az	125.3	139.3	149.6	157.1	180.6	212.5	Rennes	Az	127.9	142.3	152.9	160.6	184.5	215.9
wL 4.5	El	19.0	26.2	30.0	31.9	34.4	29.3	wL 1.7	El	20.8	27.7	31.2	32.9	34.7	28.4
B + 15.4	Sk	-32.8	-25.6	-19.7	-15.0	0.4	20.9	B + 48.1	Sk	-31.8	-24.1	-17.7	-12.8	3.0	23.0
Caen	Az	129.7	144.3	154.8	162.6	186.1	216.9	Rouen	Az	131.2	146.0	156.7	164.5	188.0	218.4
wL 0.4	El	20.8	27.3	30.6	32.2	33.4	26.9	eL 1.1	El	21.3	27.7	30.7	32.2	33.0	26.0
B + 49.2	Sk	-30.2	-22.5	-16.1	-11.3	4.0	23.1	B + 49.5	Sk	-29.3	-21.3	-14.9	-10.0	5.2	23.8
Calais	Az	132.7	147.3	158.2	165.9	188.9	218.7	St-	Az	132.8	148.2	159.6	166.8	193.1	223.8
eL 1.0	El	20.7	26.6	29.6	30.7	31.3	24.4	Etienne	El	26.0	32.6	35.7	37.0	36.9	27.7
B + 51.0	Sk	-27.6	-19.8	-13.5	-8.9	5.6	23.2	eL 4.4	Sk	-31.0	-21.7	-14.1	-8.4	9.2	29.1
Châlons-	Az	134.3	149.6	160.6	168.6	192.3	222.2	B + 45.4	Az	127.1	141.4	151.9	159.7	183.8	215.7
sur-Marne	El	23.3	25.3	32.1	33.2	33.1	25.0	St-	El	21.0	28.2	31.8	33.7	35.6	29.3
eL 4.3	Sk	-28.0	-19.4	-12.6	-7.5	8.0	26.1	Nazaire	Sk	-32.8	-25.1	-18.6	-13.6	2.6	23.3
B + 49.0	Az	135.0	150.3	161.2	169.1	192.6	222.2	B + 47.3	Az	133.6	148.7	159.5	167.3	190.8	220.6
Charleville-	El	22.9	28.7	31.4	32.5	32.2	24.2	St-	El	22.2	28.1	30.9	32.1	32.3	24.8
Mazieres	Sk	-27.2	-18.7	-12.0	-7.0	8.1	25.8	Quentin	Sk	-27.8	-19.6	-13.0	-8.1	7.0	24.9
eL 4.7	Az	131.6	146.8	158.0	166.3	191.2	222.3	eL 3.3	Az	137.8	153.6	164.9	173.0	195.8	225.9
B + 49.7	El	25.0	31.8	35.0	36.4	36.7	28.1	B + 49.8	El	25.3	30.9	33.2	34.0	32.9	23.6
Clermont-	Sk	-31.5	-22.5	-15.1	-9.5	7.8	28.0	St-Romain	Sk	-26.4	-17.1	-9.9	-4.8	11.1	28.4
Ferrand	Az	137.1	152.9	164.2	172.4	196.4	225.7	eL 7.6	Az	128.9	143.8	155.1	163.5	189.3	221.6
eL 3.1	El	25.5	31.2	33.7	34.5	33.5	24.2	B + 48.6	El	25.5	33.0	36.7	38.4	39.3	30.7
B + 45.8	Sk	-27.1	-17.7	-10.5	-5.1	10.8	28.5	eL 1.5	Sk	-34.3	-25.3	-17.8	-11.9	6.8	28.8
Colmar	Az	136.2	151.8	163.1	171.2	195.2	224.7	Tours	Az	129.9	144.7	155.5	163.4	187.7	218.9
wL 7.3	El	25.0	30.8	33.4	34.3	33.6	24.6	eL 0.7	El	22.6	29.3	32.7	34.3	35.3	28.0
B + 48.2	Sk	-27.5	-18.1	-11.2	-5.8	10.1	28.0	B + 47.4	Sk	-31.3	-13.0	-16.3	-11.1	5.2	25.2
Epinal	Az	130.3	144.9	155.5	163.2	186.7	217.3	Verdun	Az	135.5	150.9	162.0	170.0	193.6	223.2
eL 6.5	El	20.8	27.2	30.4	31.9	33.0	26.4	eL 5.4	El	23.7	29.5	32.1	33.2	32.7	24.3
B + 48.2	Sk	-29.7	-21.9	-15.6	-10.8	4.3	23.2	B + 49.2	Sk	-27.3	-18.5	-11.7	-6.5	8.9	26.6
Le Havre	Az	129.8	144.7	155.7	163.8	188.7	220.2	Marcelle	Az	132.7	148.5	160.3	168.9	194.9	226.0
eL 0.1	El	23.9	31.0	34.4	36.0	36.9	29.0	eL 1.3	El	29.1	35.0	38.2	39.5	39.0	28.8
B + 45.8	Sk	-32.4	-23.8	-16.7	-11.2	6.1	26.8	B + 53.4	Sk	-32.3	-22.4	-14.2	-8.0	10.8	31.6
Lorient	Az	126.1	140.3	150.7	158.3	182.2	214.1	Matz	Az	136.3	151.8	163.0	171.0	194.6	224.0
wL 3.4	El	20.0	27.2	31.0	32.9	35.1	29.4	eL 6.2	El	24.1	29.8	32.3	33.3	32.6	24.0
B i 47.8	Sk	-32.9	-25.4	-19.2	-14.4	1.5	22.1	B i 49.1	Sk	-26.9	-18.0	-11.0	-5.9	9.6	27.1
Lyón	Az	133.4	148.9	160.4	168.7	193.6	224.2	Montpellier	Az	131.3	146.8	158.3	166.9	192.8	224.2
eL 4.8	El	26.0	32.5	35.5	36.7	36.4	27.2	eL 3.9	El	27.0	34.1	37.5	38.9	38.9	29.4
B + 45.8	Sk	-30.5	-21.1	-13.6	-7.9	9.4	29.0	B + 43.6	Sk	-33.0	-23.4	-15.5	-9.5	9.2	30.4

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Italy

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk =Skew

		Turk sat	Astra 2A/2B/ 2D Euro bird 1	Astra 15-1H /1KR/ 2C	Hot bird 24/7A /B	Allen cbird	Hispasat			Turk sat	Astra 2A/2B/ 2D Euro bird 1	Astra 15-1H /1KR/ 2C	Hot bird 24/7A /B	Allen cbird	Hispasat		
		1C,2A	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			1C,2A	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W		
Ancona eL 13.5 B + 43.6	Az El Sk	141.8 32.2 -21.6	159.2 37.6 -14.9	171.8 39.4 -8.0	180.7 39.8 0.5	205.9 36.4 18.4	234.0 23.7 35.9	La Spezia eL 9.8 B + 44.1	Az El Sk	137.9 29.9 -28.8	154.5 35.9 -18.0	166.7 38.3 -9.5	175.5 39.0 -3.3	200.8 37.0 14.8	230.1 25.6 33.5		
Arezzo eL 11.8 B + 43.5	Az El Sk	139.8 31.5 -27.9	156.9 37.2 -16.6	169.4 39.3 -7.7	178.3 39.9 -1.2	203.7 37.1 16.9	232.5 24.9 35.1	Lecce eL 18.2 B + 40.3	Az El Sk	145.7 37.3 -25.5	164.7 42.2 -11.6	178.4 43.4 -1.2	185.0 43.1 6.1	213.5 37.6 24.9	235.9 22.5 41.3		
Asciiano eL 11.5 B + 43.2	Az El Sk	139.3 31.5 -28.4	156.4 37.4 -17.0	168.9 39.5 -8.1	177.9 40.1 -1.6	203.4 37.4 16.8	232.3 25.2 35.2	Livorno eL 10.3 B + 43.5	Az El Sk	138.1 30.6 -29.0	154.9 36.7 -18.0	167.2 39.1 -9.3	175.1 39.8 -2.8	201.7 37.5 15.5	230.9 25.8 34.3		
Ascoli Piceno eL 13.6 B + 42.9	Az El Sk	141.5 32.9 -27.1	159.0 38.4 -15.2	171.7 40.2 -6.0	180.8 40.6 0.6	206.3 37.1 18.9	234.4 24.2 36.6	Milano eL 9.2 B + 45.5	Az El Sk	137.9 28.5 -28.0	154.2 34.4 -17.8	166.1 36.8 -9.7	174.7 37.5 -2.8	199.5 35.8 13.6	228.8 25.1 31.8		
Ascoli Saturno eL 15.5 B + 41.2	Az El Sk	142.9 35.3 -27.0	161.2 40.7 -14.1	174.4 42.3 -4.2	183.8 42.3 2.9	209.6 38.0 21.8	237.1 23.9 39.2	Napoli eL 14.3 B + 40.8	Az El Sk	141.2 34.9 -28.3	159.2 40.7 -15.6	172.5 42.6 -5.7	181.9 42.8 1.5	206.1 38.8 21.0	236.1 24.9 39.0		
Bari eL 16.9 B + 41.1	Az El Sk	144.5 36.0 -25.9	163.1 41.1 -12.7	176.5 42.4 -2.7	185.9 42.3 4.4	211.4 37.5 23.2	238.4 23.0 39.9	Padova eL 11.6 B + 45.3	Az El Sk	140.5 29.6 -26.6	157.2 35.3 -15.8	169.4 37.3 -7.5	178.0 37.8 -1.4	202.8 35.3 15.8	231.3 23.8 33.3		
Barletta eL 16.3 B + 41.3	Az El Sk	143.9 35.5 -28.3	162.3 40.7 -13.2	175.6 42.2 -3.3	185.0 42.1 3.7	210.5 37.5 22.5	237.7 23.5 39.5	Palermo eL 13.4 B + 38.1	Az El Sk	138.5 36.7 -31.4	156.6 43.2 -16.1	170.6 45.4 -7.4	180.6 45.8 0.5	206.3 41.8 21.9	236.7 27.1 41.2		
Bergamo eL 9.7 B + 45.7	Az El Sk	138.5 28.5 -27.5	154.9 34.3 -17.2	166.8 36.5 -9.2	175.3 37.3 -3.2	200.1 35.4 13.9	229.2 24.6 31.9	Pavia eL 10.3 B + 44.8	Az El Sk	138.8 29.6 -27.9	155.4 35.4 -17.2	167.5 37.7 -8.8	173.2 38.3 -2.7	201.3 38.1 14.9	230.3 24.8 33.1		
Bologna eL 11.3 B + 44.5	Az El Sk	139.8 30.4 -27.5	156.6 36.0 -16.5	168.8 38.1 -7.9	177.6 38.7 -1.7	202.7 36.2 15.9	231.4 24.5 33.9	Pesaro eL 12.9 B + 43.9	Az El Sk	137.7 28.7 -28.3	154.1 34.7 -18.0	166.0 37.1 -9.8	174.6 37.8 -3.8	199.6 36.1 13.7	229.0 25.3 32.1		
Bolzano eL 11.3 B + 46.5	Az El Sk	140.7 29.7 -28.9	157.3 34.0 -15.4	169.2 36.0 -7.4	177.7 36.5 -1.6	203.0 34.2 14.9	230.5 23.1 39.1	Pescara eL 14.2 B + 42.5	Az El Sk	141.2 31.6 -26.8	158.5 37.1 -15.3	170.9 39.0 -6.5	179.8 39.4 -0.1	203.9 36.3 17.7	233.2 23.9 35.3		
Brescia eL 10.3 B + 45.5	Az El Sk	139.1 29.0 -27.3	155.6 34.7 -16.8	167.6 36.9 -8.6	176.2 37.6 -2.6	201.0 35.5 14.5	229.9 24.4 39.4	Pesaro eL 12.9 B + 43.9	Az El Sk	142.0 33.5 -27.0	158.8 39.0 -14.8	172.6 40.7 -5.4	181.8 41.0 1.3	207.3 37.2 19.7	235.2 24.0 37.3		
Cagliari eL 9.1 B + 39.3	Az El Sk	134.4 33.3 -33.6	151.3 40.4 -21.8	164.3 43.4 -12.1	173.9 44.4 -4.7	201.7 42.3 16.6	232.1 29.4 37.6	Piacenza eL 9.6 B + 45.0	Az El Sk	138.1 29.1 -28.2	154.5 35.0 -17.7	166.5 37.3 -9.5	175.2 38.1 -3.4	200.2 36.2 14.2	229.5 25.2 39.5		
Campi eL 10.9 B + 44.8	Az El Sk	139.4 29.9 -27.5	156.1 35.6 -15.8	168.3 37.8 -5.8	177.0 38.4 1.4	202.0 36.0 15.4	230.8 24.6 33.4	Pisa eL 10.4 B + 43.7	Az El Sk	138.3 30.5 -28.7	155.1 36.5 -17.7	167.3 38.8 -9.1	178.2 39.5 -2.7	201.7 37.3 15.5	230.9 25.6 34.2		
Carrara eL 10.1 B + 44.1	Az El Sk	138.2 30.1 -28.6	154.9 36.1 -17.8	167.1 38.4 -9.3	175.9 39.1 -3.0	201.2 37.0 15.1	230.5 25.5 33.6	Roma eL 12.5 B + 41.9	Az El Sk	139.7 33.1 -28.8	157.2 39.1 -16.8	170.0 41.2 -0.6	179.3 41.6 0.6	205.3 38.4 18.5	233.9 25.5 37.0		
Catania eL 15.1 B + 37.1	Az El Sk	140.2 36.2 -30.5	159.0 44.4 -16.5	173.2 46.3 -5.4	183.4 46.5 2.7	211.0 41.7 24.1	238.7 26.3 42.7	Taranto eL 17.2 B + 40.5	Az El Sk	144.5 36.7 -26.2	163.3 41.8 -12.6	176.9 43.1 -2.4	185.4 43.0 4.9	212.1 37.9 23.9	239.0 23.1 40.7		
Catanzaro eL 16.6 B + 38.9	Az El Sk	142.9 37.8 -28.0	161.9 43.4 -14.0	175.9 44.9 -3.2	185.8 44.8 4.5	212.3 39.7 24.5	239.3 24.4 42.0	Torino eL 7.7 B + 45.1	Az El Sk	136.0 28.0 -29.3	152.1 34.2 -19.3	163.9 36.9 -11.3	172.5 37.8 -5.3	197.6 36.6 12.4	227.5 26.2 31.4		
Cosaro eL 14.6 B + 37.8	Az El Sk	139.8 37.7 -30.7	158.5 43.9 -16.8	172.6 45.9 -5.9	182.7 46.1 2.1	202.0 41.6 23.4	238.1 26.4 42.2	Trento eL 11.1 B + 46.1	Az El Sk	140.3 28.9 -26.3	156.9 34.4 -15.8	168.9 36.4 -7.7	177.4 37.0 -1.8	201.9 34.6 14.9	230.5 23.5 32.3		
Cosenza eL 12.2 B + 44.2	Az El Sk	140.6 31.1 -27.1	157.7 36.7 -15.8	170.0 38.6 -7.1	178.9 39.1 -0.8	204.0 36.3 16.9	232.5 24.2 34.6	Trieste eL 13.7 B + 45.6	Az El Sk	143.0 30.6 -24.9	160.1 35.6 -13.8	172.3 37.2 -5.4	181.0 37.5 0.7	205.3 34.3 17.4	233.2 22.4 34.1		
Cosenza eL 16.2 B + 39.3	Az El Sk	142.7 37.3 -28.0	161.5 42.9 -14.2	175.3 44.4 -3.6	185.1 44.4 3.9	211.5 39.5 23.8	238.8 24.5 41.4	Venezia eL 12.3 B + 45.4	Az El Sk	141.4 30.1 -26.0	158.2 35.4 -15.1	170.4 37.3 -6.7	179.1 37.7 -0.6	203.7 34.9 16.3	232.7 23.3 33.6		
Ferrara eL 11.6 B + 44.8	Az El Sk	140.2 30.2 -27.0	157.1 35.8 -16.1	169.3 37.8 -7.6	178.0 38.4 -1.4	202.0 35.8 16.1	231.6 24.1 33.8	Verona eL 11.0 B + 45.3	Az El Sk	139.8 29.5 -27.0	156.5 35.1 -16.3	169.5 37.2 -8.0	177.2 37.8 -2.0	202.0 35.5 11.6	230.7 24.1 33.0		
Firenze eL 11.3 B + 43.8	Az El Sk	139.3 30.9 -28.0	156.2 36.7 -16.9	168.6 38.9 -8.2	177.5 39.5 -1.8	202.9 36.9 16.3	231.7 25.0 34.5	Venice eL 12.2 B + 45.3	Az El Sk	141.1 30.1 -26.2	158.0 35.5 -15.3	170.2 37.4 -6.9	178.9 37.8 -0.8	203.5 35.1 16.3	231.9 23.4 33.6		

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Spain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk=Skew

		Turk sat	Astra 2A/2B/ 2D	Astra 1E-1H 1K/R	Hot bird 2B/7A /8	Atlant icbird	Hisp asat			Turk sat	Astra 2A/2B/ 2D	Astra 1E-1H 1K/R	Hot bird 2B/7A /8	Atlant icbird	Hisp asat
		1C,2A	Euro bird 1	2C	3	5.0 W	30.0 W			1C,2A	Euro bird 1	2C	3	5.0 W	30.0 W
		42.0 E	26.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	26.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Albacete wL 1.8 B + 39.0	Az	123.2	137.4	148.6	157.2	185.0	220.4	La Coruña wL 8.4	Az	119.5	132.7	142.7	150.3	175.0	210.0
	El	26.3	35.2	39.8	42.3	44.7	36.3		El	19.5	29.1	32.9	35.6	39.9	35.5
	Sk	-40.5	-31.7	-23.9	-17.5	3.9	30.3	B + 43.3	Sk	-39.3	-32.3	-26.2	-21.2	-3.6	21.3
Algeciras wL 5.5 B + 36.2	Az	118.4	-37.2	142.1	150.5	179.2	217.7	Las Palmas wL 15.4	Az	106.8	116.3	124.3	131.0	158.7	208.9
	El	25.2	35.1	40.6	43.7	48.1	40.7		El	20.2	32.3	39.9	44.7	55.2	53.5
	Sk	-45.2	-37.2	-29.7	-23.4	-0.7	29.5	B + 28.1	Sk	-57.6	-52.3	-46.8	-41.8	-18.7	25.3
Alicante wL 0.5 B + 38.1	Az	124.1	138.6	150.0	158.9	187.2	222.3	Madrid wL 3.7	Az	122.3	136.2	146.9	155.1	182.0	217.3
	El	27.6	36.5	41.0	43.4	45.3	36.0		El	24.2	33.0	37.7	40.2	43.3	36.0
	Sk	-40.4	-31.2	-23.1	-16.4	5.7	31.9	B + 40.1	Sk	-40.1	-31.8	-24.6	-18.6	1.5	27.5
Almería wL 2.5 B + 36.9	Az	121.4	135.4	146.5	155.3	184.2	221.0	Malaga wL 4.4	Az	119.6	133.1	143.8	152.3	181.0	218.7
	El	27.1	36.5	41.6	44.2	47.2	38.4		El	25.7	35.4	40.7	43.6	47.4	39.6
	Sk	-43.0	-34.2	-26.2	-19.6	3.3	31.6	B + 36.7	Sk	-44.2	-35.9	-28.2	-21.9	0.8	30.1
Ávila wL 4.7 B + 40.7	Az	121.5	135.2	145.8	153.9	180.4	215.9	Palma de Mallorca eL 2.7 B + 39.6	Az	127.9	143.1	155.0	164.0	191.9	225.2
	El	23.4	32.2	37.0	39.6	43.0	36.3		El	29.0	37.1	41.1	43.0	43.5	33.2
	Sk	-40.2	-32.3	-25.3	-19.5	0.4	26.4		Sk	-37.4	-27.6	-19.0	-12.3	9.2	33.2
Badajoz wL 7.0 B + 38.8	Az	118.6	131.7	141.9	149.9	176.8	214.1	Salamanca wL 5.7 B + 41.0	Az	120.9	134.3	144.8	152.8	179.0	214.6
	El	22.7	32.2	37.5	40.5	45.0	39.1		El	22.6	31.4	36.3	38.9	42.7	36.5
	Sk	-43.2	-35.6	-28.7	-23.0	-2.5	25.9		Sk	-40.4	-32.7	-25.8	-20.2	-0.6	25.3
Barcelona eL 2.2 B + 41.4	Az	128.4	143.6	155.2	169.9	190.8	223.6	San Sebastian wL 2.0 B + 43.3	Az	125.4	139.7	150.5	158.7	184.4	217.8
	El	27.5	35.3	39.1	40.9	41.6	32.1		El	23.6	31.6	35.7	37.8	40.0	32.7
	Sk	-36.0	-26.5	-18.4	-12.3	8.1	31.2		Sk	-36.4	-28.1	-21.0	-15.3	3.2	26.5
Bilbao wL 2.9 B + 43.3	Az	124.5	138.6	149.3	157.4	183.0	216.7	Santa Cruz de la Palma wL 17.8 B + 28.7	Az	105.5	114.9	122.5	128.9	154.7	204.3
	El	23.1	31.1	35.4	37.6	40.1	33.2		El	18.0	30.1	37.6	42.5	53.7	53.9
	Sk	-36.8	-28.8	-21.8	-16.3	2.2	25.8		Sk	-57.7	-52.7	-47.7	-43.1	-22.0	21.1
Burgos wL 3.7 B + 42.4	Az	123.3	137.3	147.9	156.0	182.0	216.3	Santa Cruz de Tenerife wL 16.3 B + 28.5	Az	106.4	115.9	123.8	130.4	157.3	207.2
	El	23.1	31.5	35.9	38.3	41.1	34.3		El	19.4	31.5	39.0	43.8	54.5	53.5
	Sk	-38.1	-30.1	-23.1	-17.5	1.4	25.9		Sk	-57.5	-52.3	-46.9	-42.0	-19.8	23.6
Cádiz wL 6.3 B + 36.5	Az	117.9	130.8	141.2	149.5	177.8	216.4	Santander wL 3.9 B + 43.5	Az	123.7	137.7	148.3	156.2	181.7	215.5
	El	24.4	34.3	39.8	43.0	47.6	40.9		El	22.3	30.5	34.8	37.1	39.9	33.4
	Sk	-45.3	-37.5	-30.2	-24.1	-1.8	28.5		Sk	-37.1	-29.3	-22.5	-17.0	1.2	24.9
Cartagena wL 1.0 B + 37.6	Az	123.2	137.6	149.0	157.8	186.6	222.3	Sevilla wL 5.0 B + 37.4	Az	118.7	131.8	142.2	150.4	178.4	216.3
	El	27.7	36.8	41.5	44.0	46.2	36.9		El	24.2	33.9	39.3	42.3	46.7	39.9
	Sk	-41.5	-32.3	-24.1	-17.4	5.2	32.2		Sk	-44.2	-36.3	-29.1	-23.1	-1.3	28.0
Córdoba wL 4.8 B + 37.8	Az	119.9	133.3	144.0	152.3	180.3	217.5	Valencia wL 0.7 B + 39.3	Az	124.5	139.0	150.3	159.5	186.8	221.6
	El	24.8	34.3	39.5	42.3	46.2	38.9		El	26.9	35.6	40.0	42.3	44.3	35.3
	Sk	-43.2	-35.1	-27.7	-21.5	0.3	28.8		Sk	-39.6	-30.2	-22.1	-15.7	5.2	30.9
Gijón wL 5.7 B + 43.5	Az	122.1	135.7	146.0	154.8	179.0	213.2	Valladolid wL 4.7 B + 41.6	Az	122.0	135.7	146.3	154.3	180.4	215.4
	El	21.1	29.4	33.9	36.4	39.8	34.2		El	22.8	31.5	36.1	38.6	41.9	35.5
	Sk	-37.9	-30.4	-23.9	-18.7	-0.7	-0.7		Sk	-39.3	-31.5	-24.5	-18.9	0.3	25.7
Granada wL 3.6 B + 37.2	Az	120.6	134.3	145.2	153.8	182.3	219.4	Vigo wL 8.7 B + 42.2	Az	118.8	131.8	141.8	149.4	174.5	210.2
	El	26.1	35.6	40.7	43.5	46.9	39.8		El	19.8	29.7	33.7	36.5	41.1	36.7
	Sk	-43.3	-34.8	-27.1	-20.6	1.8	30.4		Sk	-40.5	-33.5	-27.3	-22.4	-4.1	21.8
Hospitalet de Llobregat eL 7.1 B + 41.4	Az	128.3	143.4	155.0	163.7	190.7	223.5	Zaragoza wL 1.0 B + 41.6	Az	125.4	139.9	151.0	159.4	186.0	219.9
	El	27.5	35.3	39.1	40.6	41.7	32.1		El	25.3	33.5	37.7	39.9	41.8	33.6
	Sk	-36.0	-26.6	-19.5	-12.1	8.0	31.1		Sk	-37.5	-28.7	-21.7	-15.1	4.5	28.6
Ibiza eL 1.4 B + 38.9	Az	126.3	141.2	153.0	161.9	190.2	224.2								
	El	28.6	37.1	41.3	43.4	44.5	34.5								
	Sk	-38.9	-29.1	-20.7	-13.9	7.9	32.9								

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Switzerland

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/5/7A /B	Atlantcbrd 3	Hispasat 1C,1D
		1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
<u>Basel</u> eL 7.6 B + 47.6	Az	137.1	153.0	164.5	172.7	196.9	226.2
	El	26.0	31.8	34.2	35.1	34.0	24.4
	Sk	-27.3	-17.8	-10.4	-4.9	11.3	29.1
<u>Bern</u> eL 7.4 B + 47.0	Az	136.7	152.6	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-27.9	-18.3	-10.8	-5.2	11.3	29.5
<u>Biel</u> eL 8.2 B + 46.5	Az	137.3	153.4	165.0	173.4	198.0	227.4
	El	27.2	33.1	35.5	36.4	35.0	24.9
	Sk	-27.8	-18.0	-10.3	-4.5	12.2	30.4
<u>Gené</u> eL 6.2 B + 46.2	Az	135.0	150.7	162.2	170.6	195.3	225.3
	El	26.3	32.6	35.3	36.4	35.7	26.2
	Sk	-29.3	-19.8	-12.2	-6.5	10.6	29.5
<u>Köniz</u> eL 7.4 B + 46.9	Az	136.7	152.5	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-28.0	-18.4	-10.8	-5.2	11.4	29.6
<u>Lausanne</u> eL 6.7 B + 46.5	Az	135.7	151.4	162.9	171.3	195.9	225.7
	El	26.4	32.5	35.1	36.1	35.3	25.7
	Sk	-28.7	-19.2	-11.6	-6.0	10.9	29.6
<u>Locarno</u> eL 8.8 B + 46.2	Az	137.8	154.0	165.7	174.2	198.8	228.1
	El	27.7	33.6	35.9	36.7	35.2	24.8
	Sk	-27.7	-17.7	-9.8	-4.0	12.9	31.0
<u>Luzern</u> eL 7.9 B + 47.0	Az	137.2	153.2	164.7	173.1	197.4	226.8
	El	26.6	32.4	34.8	35.7	34.5	24.6
	Sk	-27.6	-17.9	-10.4	-4.7	11.8	29.8
<u>Sankt Gallen</u> eL 9.4 B + 47.4	Az	139.0	155.2	166.8	175.1	199.2	228.1
	El	27.0	32.5	34.7	35.4	33.7	23.6
	Sk	-26.4	-18.5	-8.9	-3.3	12.9	30.3
<u>Thun</u> eL 7.6 B + 46.8	Az	136.8	152.8	164.3	172.7	197.1	226.6
	El	26.7	32.6	35.0	36.0	34.8	25.0
	Sk	-28.0	-18.3	-10.7	-5.1	11.6	29.8
<u>Winterthur</u> eL 8.8 B + 47.5	Az	138.4	154.4	166.0	174.2	198.4	227.4
	El	26.6	32.2	34.5	35.3	33.8	23.9
	Sk	-26.7	-16.9	-9.4	-3.8	12.3	29.9
<u>Zürich</u> eL 8.6 B + 47.4	Az	138.1	154.1	165.7	174.0	198.1	227.3
	El	26.6	32.3	34.6	35.4	34.0	24.0
	Sk	29.8	-17.1	-9.6	-4.0	12.2	29.8

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>

Norway

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat 1C,2A	ASTRA Eurobird 1	ASTRA 1D,3A	ASTRA 1E -	Eutelsat W2	Hotbird 2/6/7A/8	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2-3	Atlantic Bird 3	HISPASA T 1C,1D
		42.0 East	28.2 East	23.5 East	19.2 East	18.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.0 West	30.0 West
Bergen	Az: 139.4	154.1	159.3	164.1	167.8	171.2	174.6	178.1	187.3	191.8	219.2	
eL 5.3; B + 60.4	El: 15.0	18.9	19.8	20.5	20.9	21.2	21.4	21.5	21.3	21.0	15.4	
	Sk: -18.8	-12.5	-10.1	-7.8	-6.0	-4.4	-2.7	-1.0	3.6	5.8	18.2	
Bremsen	Az: 144.4	159.4	164.8	169.7	173.4	176.8	180.3	183.8	193.0	197.5	224.4	
eL 10.3; B + 58.8	El: 17.0	20.5	21.2	21.8	22.0	22.2	22.2	22.2	21.5	21.0	14.2	
	Sk: -17.0	-10.1	-7.6	-5.2	-3.3	-1.6	0.2	1.9	6.5	8.7	20.6	
Kristiansand	Az: 141.6	156.6	161.9	166.9	170.6	174.1	177.7	181.2	190.6	195.2	222.6	
eL 8.0; B + 58.1	El: 17.7	21.6	22.6	23.2	23.6	23.8	23.9	23.9	23.5	23.0	16.2	
	Sk: -19.2	-12.1	-9.4	-6.9	-5.0	-3.1	-1.2	0.6	5.6	8.0	21.0	
Oslo	Az: 145.0	160.0	165.4	170.3	173.9	177.4	180.9	184.3	193.5	198.1	224.9	
eL 10.8; B + 59.9	El: 17.1	20.4	21.2	21.7	21.9	22.0	22.0	22.0	21.3	20.7	13.9	
	Sk: -18.7	-9.8	-7.3	-4.8	-3.0	-1.3	0.3	2.2	6.8	9.0	20.8	
Stavanger	Az: 139.4	154.3	159.6	164.4	168.1	171.8	175.0	178.5	187.9	192.5	220.0	
eL 5.8; B + 59.0	El: 16.2	20.3	21.3	22.0	22.5	22.8	22.9	23.0	22.8	22.4	16.4	
	Sk: -19.5	-12.9	-10.4	-7.9	-6.1	-4.3	-2.5	-0.7	4.1	6.4	19.4	
Trondheim	Az: 145.5	160.3	165.4	170.2	173.7	177.1	180.4	183.8	192.7	197.1	223.5	
eL 10.4; B + 63.6	El: 13.8	16.7	17.4	17.8	18.0	18.1	18.1	18.1	17.6	17.1	11.3	
	Sk: -14.6	-8.5	-6.4	-4.3	-2.8	-1.3	0.2	1.7	5.6	7.5	17.8	

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Denmark

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat 1C,2A	ASTRA Eurobird 1	ASTRA 1D,3A	ASTRA 1E -	Eutelsat W2	Hotbird 2/6/7A/8	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2-3	Atlantic Bird 3	HISPASA T 1C,1D
		42.0 East	28.2 East	23.5 East	19.2 East	18.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.0 West	30.0 West
Alborg	Az: 143.3	158.5	163.9	169.0	172.8	176.3	179.9	183.5	193.0	197.6	224.9	
eL 9.9; B + 57.1	El: 19.3	23.1	23.3	24.6	24.9	25.0	25.1	25.0	24.4	23.8	18.3	
	Sk: -19.0	-11.5	-8.7	-6.0	-3.9	-2.0	-0.1	1.9	7.0	9.4	22.5	
Aarhus	Az: 143.3	158.7	164.1	169.3	173.0	176.7	180.3	183.9	193.4	198.1	225.5	
eL 10.2; B + 56.2	El: 20.1	24.1	24.9	25.5	25.8	26.0	26.0	26.0	25.3	24.6	16.9	
	Sk: -19.4	-11.7	-8.8	-6.0	-3.9	-1.9	0.1	2.1	7.4	10.0	23.4	
Esbjerg	Az: 141.2	156.5	162.0	167.0	170.9	174.5	178.1	181.8	191.4	196.2	224.0	
eL 8.5; B + 55.5	El: 20.0	24.3	25.3	26.0	26.4	26.7	26.8	26.8	26.2	25.6	18.1	
	Sk: -20.8	-13.0	-10.1	-7.3	-5.1	-3.1	-1.0	1.0	6.5	9.1	23.2	
Helsingør	Az: 145.8	161.4	166.9	172.1	175.9	179.6	183.2	186.8	196.3	201.0	228.0	
eL 12.6; B + 56.1	El: 21.0	24.7	25.4	25.9	26.1	26.2	26.1	26.0	25.0	24.2	15.9	
	Sk: -18.3	-10.2	-7.2	-4.4	-2.3	-0.3	1.8	3.8	9.0	11.5	24.5	
Horsens	Az: 143.5	158.8	164.2	169.2	173.0	176.8	180.1	183.7	193.2	197.8	225.1	
eL 10.1; B + 57.1	El: 19.3	23.1	24.0	24.5	24.8	25.0	25.0	25.0	24.3	23.7	16.2	
	Sk: -18.9	-11.4	-8.5	-5.0	-3.8	-1.9	0.1	2.0	7.1	9.6	22.6	
København	Az: 145.7	161.3	166.9	172.0	175.8	179.5	183.1	186.7	196.3	201.0	228.0	
eL 12.6; B + 55.7	El: 21.3	25.0	25.9	26.3	26.5	26.6	26.5	26.4	25.4	24.6	16.2	
	Sk: -18.5	-10.4	-7.4	-4.5	-2.3	-0.3	1.8	3.8	9.1	11.7	24.8	
Kolding	Az: 142.3	157.7	163.2	168.3	172.1	175.8	179.4	183.0	192.7	197.4	225.0	
eL 9.5; B + 55.5	El: 20.4	24.6	25.5	26.2	26.5	26.7	26.8	26.7	26.1	25.4	17.7	
	Sk: -20.3	-12.4	-9.4	-6.6	-4.5	-2.4	-0.3	1.7	7.1	9.8	23.6	
Odense	Az: 143.2	158.7	164.2	169.4	173.2	176.9	180.5	184.1	193.8	198.5	226.0	
eL 10.4; B + 55.4	El: 20.8	24.9	25.8	26.4	26.7	26.8	26.9	26.8	26.0	25.3	17.3	
	Sk: -19.9	-11.9	-8.9	-6.0	-3.9	-1.8	0.3	2.3	7.8	10.4	24.1	
Randers	Az: 143.2	158.5	164.1	169.1	172.9	176.5	180.1	183.7	193.2	197.9	225.2	
eL 10.1; B + 56.5	El: 19.8	23.7	24.8	25.2	25.5	25.7	25.7	25.7	25.0	24.3	16.7	
	Sk: -19.3	-11.6	-8.7	-6.0	-3.9	-1.9	0.1	2.1	7.3	9.8	23.1	
Roskilde	Az: 145.2	160.8	166.3	171.4	175.3	178.9	182.6	186.2	195.8	200.5	227.6	
eL 12.1; B + 55.7	El: 21.2	25.0	25.7	26.3	26.5	26.6	26.6	26.4	25.5	24.8	16.4	

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Austria

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

		Tuerksat 1C,2A	ASTRA Eurobird 1	ASTRA 1D,3A	ASTRA 1E	Eutelsat W2	Hotbird 2/6/7A/B	Eutelsat W1	Eutelsat W3A	Intelsat Thor 2 - 3	Atlantic Bird 3	HISPASAT 1C, 1D
		42.0 East	29.2 East	23.6 East	19.2 East	16.0 East	13.0 East	10.0 East	7.0 East	1.0 West	5.0 West	30.0 West
Amstetten	Az:	145.4	162.3	168.5	174.2	178.5	182.5	186.5	190.5	200.9	205.9	233.2
eL 14.9; B + 48.1	El:	28.8	33.3	34.1	34.6	34.7	34.7	34.6	34.2	32.7	31.5	20.1
	Sk:	-22.2	-11.7	-7.6	-3.9	-1.0	1.7	4.4	7.0	13.8	17.0	32.4
Attornoo	Az:	143.8	160.6	166.6	172.4	176.7	180.7	184.8	188.8	199.3	204.3	232.0
eL 13.5; B + 47.9	El:	28.5	33.2	34.1	34.7	34.9	35.0	34.9	34.6	33.2	32.1	21.0
	Sk:	-23.3	-12.9	-8.9	-5.1	-2.3	0.5	3.2	5.8	12.8	16.0	31.9
Bad Ischl	Az:	143.9	160.7	166.7	172.5	176.8	180.9	184.9	188.9	199.4	204.5	232.2
eL 13.6; B + 47.7	El:	28.7	33.4	34.4	34.9	35.1	35.2	35.1	34.8	33.4	32.3	21.0
	Sk:	-23.4	-12.9	-8.9	-5.1	-2.2	0.6	3.3	6.0	12.9	16.2	32.1
Bader	Az:	147.0	164.1	170.2	176.0	180.3	184.3	188.3	192.3	202.6	207.6	234.5
eL 16.2; B + 48.0	El:	29.5	33.6	34.1	34.8	34.9	34.8	34.5	34.1	32.4	31.2	19.4
	Sk:	-21.4	-10.6	-6.5	-2.7	0.2	2.9	5.6	8.2	14.9	18.0	33.0
Björns	Az:	139.4	155.6	161.6	167.3	171.6	175.7	179.8	183.9	194.6	199.9	228.7
eL 9.8; B + 47.2	El:	27.4	32.9	34.1	35.0	35.5	35.7	35.6	35.7	34.8	33.9	23.5
	Sk:	-26.3	-16.3	-12.4	-8.6	-5.7	-3.0	-0.2	2.6	9.8	13.3	30.7
Braunau	Az:	143.4	160.1	166.2	171.8	176.0	180.1	184.1	188.1	198.5	203.6	231.4
eL 13.1; B + 48.3	El:	28.0	32.7	33.6	34.3	34.5	34.6	34.5	34.3	33.0	31.9	21.0
	Sk:	-23.3	-13.1	-9.1	-5.4	-2.6	0.1	2.8	5.4	12.3	15.5	31.3
Großgörs	Az:	139.4	155.6	161.6	167.2	171.5	175.5	179.6	183.7	194.4	199.6	228.4
eL 9.7; B + 47.5	El:	27.1	32.5	33.8	34.6	35.1	35.3	35.4	35.4	34.4	33.6	23.3
	Sk:	-26.1	-16.2	-12.3	-8.6	-5.7	-3.0	-0.3	2.5	9.7	13.1	30.3
Bruck	Az:	147.6	164.8	171.0	176.8	181.1	185.1	189.1	193.1	203.3	208.3	235.1
eL 16.8; B + 48.0	El:	29.7	33.8	34.5	34.8	34.9	34.7	34.5	34.1	32.2	31.0	19.1
	Sk:	-21.0	-10.1	-6.0	-2.2	0.7	3.4	6.1	8.7	15.4	18.5	33.3
Chauschlag	Az:	145.3	162.5	168.7	174.6	178.9	183.1	187.2	191.2	201.8	206.8	234.1
eL 15.2; B + 46.8	El:	30.2	34.7	35.6	36.0	36.2	36.1	35.9	35.6	33.9	32.6	20.7
	Sk:	-23.0	-11.9	-7.7	-3.8	-0.8	2.1	4.9	7.6	14.7	18.0	33.7
Danewitz	Az:	145.4	162.4	168.7	174.4	178.7	182.9	186.9	190.9	201.4	206.4	233.7
eL 15.1; B + 47.4	El:	29.6	34.1	34.9	35.4	35.6	35.5	35.4	35.0	33.4	32.2	20.4
	Sk:	-22.0	-11.8	-7.7	-3.8	-0.8	1.9	4.7	7.4	14.3	17.6	33.1
Dornbirn	Az:	139.4	155.6	161.6	167.3	171.5	175.5	179.7	183.7	194.5	199.7	228.5
eL 9.8; B + 47.4	El:	27.2	32.6	33.9	34.7	35.2	35.4	35.5	35.5	34.5	33.6	23.4
	Sk:	-26.1	-16.2	-12.3	-8.5	-5.7	-2.8	-0.2	2.6	9.8	13.2	30.5
Ebnsee	Az:	144.1	160.8	167.0	172.7	177.0	181.0	185.1	189.1	199.6	204.6	232.3
eL 13.8; B + 47.8	El:	28.7	33.3	34.3	34.8	35.1	35.1	35.0	34.7	33.3	32.1	20.9
	Sk:	-23.2	-12.7	-8.7	-4.9	-2.0	0.7	3.4	6.1	13.0	16.3	32.1
Eisenaz	Az:	145.3	162.2	168.4	174.2	178.5	182.6	186.6	190.7	201.1	206.1	233.5
eL 14.9; B + 47.5	El:	29.4	33.9	34.8	35.2	35.4	35.4	35.2	34.9	33.2	32.1	20.4
	Sk:	-22.7	-11.9	-7.8	-3.9	-1.0	1.7	4.5	7.2	14.1	17.3	32.9
Eisenstadt	Az:	147.1	164.3	170.5	176.3	180.7	184.7	188.8	192.8	203.2	208.1	235.0
eL 16.5; B + 47.5	El:	30.1	34.2	35.0	35.4	35.4	35.3	35.1	34.6	32.8	31.6	19.5
	Sk:	-21.5	-10.5	-6.4	-2.5	0.5	3.2	5.9	8.6	15.4	18.6	33.6
Feldbach	Az:	146.1	163.3	169.7	175.4	179.8	183.9	188.0	192.1	202.5	207.5	234.7
eL 15.9; B + 47.0	El:	30.3	34.7	35.5	35.9	36.0	36.0	35.7	35.3	33.6	32.3	20.2
	Sk:	-22.3	-11.2	-7.0	-3.1	-0.1	2.7	5.5	8.2	15.2	18.4	33.8
Föhndorf	Az:	144.8	161.8	168.1	173.8	178.2	182.3	186.3	190.4	200.9	206.0	233.4
eL 14.7; B + 47.2	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.6	35.2	33.6	32.5	20.8
	Sk:	-23.0	-12.2	-8.1	-4.2	-1.2	1.6	4.3	7.1	14.1	17.3	33.1
Forstfeld	Az:	146.4	163.6	170.0	175.7	180.1	184.2	188.2	192.3	202.7	207.7	234.8
eL 16.1; B + 47.1	El:	30.3	34.6	35.4	35.8	35.9	35.8	35.6	35.2	33.4	32.1	20.1
	Sk:	-22.1	-11.0	-6.8	-2.9	0.1	2.9	5.6	8.4	15.3	18.5	33.8
Gmünd	Az:	144.2	160.9	167.0	172.7	177.0	181.1	185.1	189.1	199.6	204.6	232.3
eL 13.8; B + 47.9	El:	28.6	33.2	34.2	34.7	34.9	35.0	34.9	34.6	33.1	32.0	20.8
	Sk:	-23.1	-12.7	-8.7	-4.9	-2.0	0.7	3.4	6.1	13.0	16.2	32.0
Graz	Az:	145.6	162.7	169.0	174.8	179.1	183.2	187.3	191.4	201.9	206.9	234.1
eL 15.4; B + 47.1	El:	30.0	34.4	35.3	35.8	35.9	35.8	35.6	35.3	33.6	32.3	20.4
	Sk:	-22.6	-11.6	-7.5	-3.5	-0.6	2.2	5.0	7.7	14.7	18.0	33.5
Güssing	Az:	146.7	164.0	170.2	176.1	180.5	184.5	188.6	192.7	203.1	208.1	235.1
eL 16.1; B + 47.1	El:	30.4	34.7	35.4	35.9	35.9	35.8	35.6	35.2	33.3	32.0	19.9
	Sk:	-22.0	-10.9	-6.6	-2.7	0.3	3.1	5.8	8.5	15.5	18.7	33.9
Innsbruck	Az:	141.2	157.7	163.7	169.5	173.8	177.9	181.9	186.0	196.7	201.9	230.2
eL 11.4; B + 47.3	El:	28.1	33.2	34.4	35.1	35.5	35.6	35.7	35.5	34.3	33.3	22.6
	Sk:	-25.2	-14.9	-11.0	-7.1	-4.2	-1.5	1.3	4.1	11.2	14.6	31.4
Judenburg	Az:	144.8	161.8	168.0	173.8	178.1	182.2	186.3	190.4	200.9	205.9	233.4
eL 14.8; B + 47.2	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.6	35.2	33.6	32.5	20.8
	Sk:	-23.1	-12.3	-8.2	-4.3	-1.3	1.5	4.3	7.0	14.0	17.3	33.0
Kapfenberg	Az:	145.7	162.7	168.9	174.7	179.0	183.1	187.2	191.2	201.7	206.7	233.9

eL 15.3; B + 47.4	El:	29.6	34.1	34.9	35.4	35.5	35.5	35.3	34.9	33.2	32.0	20.3
	Sk:	-22.5	-11.6	-7.5	-3.6	-0.6	2.1	4.9	7.6	14.5	17.7	33.2
Kirchschlag	Az:	146.9	164.1	170.3	176.1	180.4	184.5	188.5	192.5	202.9	207.9	234.6
eL 16.3; B + 47.5	El:	30.0	34.2	35.0	35.4	35.4	35.3	35.1	34.7	32.9	31.6	19.6
	Sk:	-21.7	-10.7	-6.6	-2.7	0.3	3.0	5.7	8.4	15.2	18.4	33.5
Kirchhof	Az:	142.4	159.0	165.1	170.8	175.1	179.2	183.3	187.3	197.9	203.0	231.1
eL 12.4; B + 47.5	El:	28.4	33.3	34.4	35.1	35.4	35.5	35.4	35.2	33.9	32.9	21.9
	Sk:	-24.1	-11.0	-10.0	-6.2	-3.3	-0.6	2.2	1.9	12.0	15.3	31.7
Klagersfurt	Az:	143.9	161.0	167.3	173.1	177.5	181.7	185.8	189.9	200.6	205.7	233.3
eL 14.2; B + 46.4	El:	30.1	34.9	35.7	36.4	36.6	36.6	36.5	36.2	34.6	33.4	21.6
	Sk:	-23.9	-12.9	-8.7	-4.7	-1.7	1.1	4.0	6.8	14.0	17.3	33.5
Knitolfeld	Az:	145.1	162.1	168.4	174.1	178.4	182.5	186.6	190.6	201.1	206.2	233.6
eL 12.2; B + 47.2	El:	29.6	34.2	35.1	35.6	35.7	35.7	35.5	35.2	33.6	32.4	20.7
	Sk:	-22.9	-12.0	-7.9	-4.0	-1.0	1.8	4.5	7.3	14.2	17.5	33.2
Krems	Az:	146.4	163.4	169.5	175.2	179.5	183.5	187.5	191.4	201.7	206.7	233.6
eL 15.6; B + 48.4	El:	28.9	33.1	33.9	34.3	34.4	34.4	34.2	33.8	32.2	31.0	19.5
	Sk:	-21.5	-11.0	-7.0	-3.2	-0.4	2.3	5.0	7.6	14.2	17.4	32.4
Kühn	Az:	142.0	158.6	164.7	170.5	174.8	178.9	183.0	187.1	197.8	202.9	231.1
eL 12.2; B + 47.1	El:	28.6	33.6	34.7	35.4	35.7	35.9	35.8	35.6	34.3	33.3	22.2
	Sk:	-24.8	-14.4	-10.3	-6.5	-3.5	-0.7	2.0	4.8	12.0	15.4	32.0
Kufstein	Az:	142.2	158.8	164.9	170.5	174.8	178.9	183.0	187.0	197.6	202.7	230.8
eL 12.2; B + 47.6	El:	28.2	33.2	34.2	34.9	35.2	35.3	35.3	35.1	33.8	32.8	21.9
	Sk:	-24.4	-14.1	-10.1	-6.4	-3.5	-0.7	2.0	4.7	11.8	15.1	31.5
Köfisch	Az:	145.3	162.3	168.6	174.4	178.7	182.9	186.9	191.0	201.5	206.5	233.9
eL 15.1; B + 47.1	El:	29.9	34.4	35.2	35.8	35.9	35.9	35.7	35.3	33.7	32.5	20.6
	Sk:	-22.6	-11.9	-7.7	-3.8	-0.8	2.0	4.7	7.5	14.5	17.7	33.4
Lanock	Az:	140.2	156.6	162.7	168.3	172.6	176.7	180.8	184.9	195.6	200.8	229.4
eL 10.6; B + 47.2	El:	27.8	33.1	34.3	35.2	35.6	35.8	35.8	35.7	34.6	33.7	23.1
	Sk:	-25.8	-15.6	-11.7	-7.9	-5.0	-2.2	0.6	3.3	10.6	14.0	30.8
Laibitz	Az:	145.7	162.9	169.2	175.0	179.4	183.5	187.6	191.7	202.2	207.2	234.5
eL 10.3; B + 46.8	El:	30.3	34.8	35.6	36.1	36.2	36.2	35.9	35.6	33.8	32.6	20.5
	Sk:	-22.7	-11.6	-7.4	-3.4	-0.4	2.4	5.2	8.0	15.0	18.3	33.9
Lienz	Az:	142.5	159.3	165.5	171.2	175.6	179.7	183.8	187.9	198.6	203.7	231.7
eL 12.8; B + 46.8	El:	29.1	34.1	35.2	35.8	36.1	36.2	36.1	35.9	34.5	33.4	22.1
	Sk:	-24.6	-14.0	-9.9	-6.0	-3.0	-0.2	2.6	5.4	12.6	16.0	32.5
Liezen	Az:	144.5	161.4	167.6	173.3	177.6	181.7	185.7	189.8	200.3	205.3	232.9
eL 14.3; B + 47.6	El:	29.1	33.7	34.6	35.1	35.3	35.3	35.2	35.0	33.4	32.2	20.8
	Sk:	-23.0	-12.4	-8.3	-4.5	-1.6	1.2	3.9	6.6	13.6	16.8	32.5
Linz	Az:	144.9	161.7	167.8	173.5	177.7	181.7	185.7	189.7	200.1	205.1	232.6
eL 14.3; B + 48.3	El:	28.4	32.9	33.8	34.3	34.5	34.5	34.4	34.1	32.6	31.5	20.3
	Sk:	-22.5	-12.1	-8.1	-4.4	-1.5	1.2	3.8	6.5	13.2	16.4	31.9
Loosen	Az:	145.4	162.4	168.7	174.4	178.8	182.9	186.9	190.9	201.4	206.4	233.7
eL 15.1; B + 47.4	El:	29.6	34.1	34.9	35.4	35.6	35.5	35.4	35.0	33.4	32.2	20.4
	Sk:	-22.6	-11.8	-7.7	-3.8	-0.8	1.9	4.7	7.4	14.3	17.5	33.1
Löcher	Az:	142.7	159.4	165.5	171.2	175.5	179.6	183.6	187.7	198.3	203.4	231.3
eL 12.7; B + 47.0	El:	28.4	33.3	34.3	35.0	35.2	35.3	35.3	35.1	33.7	32.7	21.7
	Sk:	-24.1	-13.7	-9.7	-5.9	-3.0	-0.3	2.5	5.2	12.2	15.5	31.8
Marienberg	Az:	145.8	162.8	169.0	174.8	179.1	183.1	187.2	191.2	201.6	206.6	233.8
eL 15.3; B + 47.8	El:	29.3	33.7	34.5	35.0	35.1	35.1	34.9	34.5	32.9	31.7	20.0
	Sk:	-22.2	-11.4	-7.4	-3.5	-0.6	2.1	4.8	7.5	14.3	17.5	32.8
Mattersburg	Az:	147.1	164.2	170.4	176.2	180.5	184.5	188.6	192.6	203.0	207.9	234.8
eL 16.4; B + 47.7	El:	29.8	34.0	34.8	35.1	35.2	35.1	34.8	34.4	32.6	31.4	19.4
	Sk:	-21.5	-10.5	-6.4	-2.6	0.4	3.1	5.8	8.5	15.2	18.4	33.4
Märzschlag	Az:	146.2	163.3	169.5	175.2	179.6	183.9	187.7	191.7	202.1	207.1	234.2
eL 15.7; B + 47.6	El:	29.6	34.0	34.8	35.2	35.3	35.3	35.0	34.7	33.0	31.7	19.9
	Sk:	-22.0	-11.2	-7.1	-3.2	-0.3	2.5	5.2	7.9	14.7	17.9	33.2
Mied	Az:	143.9	160.6	166.7	172.4	176.6	180.7	184.7	188.7	199.1	204.2	231.8
eL 13.5; B + 48.2	El:	28.2	32.8	33.8	34.4	34.6	34.6	34.5	34.3	32.9	31.8	20.8
	Sk:	-23.1	-12.8	-8.8	-5.1	-2.2	0.5	3.1	5.8	12.6	15.8	31.6
Poltenmann	Az:	144.6	161.5	167.7	173.5	177.8	181.9	185.9	189.9	200.4	205.5	233.0
eL 14.4; B + 47.5	El:	29.2	33.8	34.7	35.2	35.4	35.4	35.2	34.9	33.4	32.2	20.8
	Sk:	-23.0	-12.3	-8.3	-4.4	-1.5	1.3	4.0	6.7	13.7	16.9	32.7
Saalfelden	Az:	142.9	159.6	165.7	171.4	175.7	179.9	183.9	187.9	198.5	203.6	231.6
eL 12.9; B + 47.4	El:	28.6	33.5	34.6	35.2	35.4	35.5	35.5	35.2	33.9	32.8	21.7
	Sk:	-24.1	-13.0	-9.0	-5.8	-2.9	-0.1	2.7	5.4	12.5	15.8	32.0
Salzburg	Az:	143.3	159.9	166.1	171.7	176.0	180.1	184.1	188.1	198.7	203.7	231.6
eL 13.1; B + 47.8	El:	28.4	33.2	34.2	34.8	35.0	35.1	35.0	34.8	33.4	32.4	21.3
	Sk:	-23.7	-13.3	-9.3	-5.5	-2.6	0.1	2.8	5.5	12.5	15.7	31.8
Sand Polten	Az:	146.4	163.3	169.5	175.2	179.5	183.5	187.5	191.5	201.8	206.8	233.9
eL 15.6; B + 48.2	El:	29.1	33.3	34.1	34.5	34.6	34.6	34.4	34.0	32.4	31.2	19.6
	Sk:	-21.7	-11.0	-7.0	-3.2	-0.4	2.3	5.0	7.6	14.3	17.5	32.6
Scheibbs	Az:	145.7	162.7	168.9	174.6	178.9	182.9	186.9	190.9	201.3	206.3	233.5

eL 15.2; B + 48.0	El:	29.1	33.4	34.3	34.7	34.9	34.8	34.6	34.3	32.7	31.5	20.0
	Sk:	-22.1	-11.5	-7.4	-3.6	-0.7	2.0	4.7	7.3	14.1	17.3	32.6
Schelling eL 14.3; B + 47.1	Az:	144.4	161.3	167.5	173.3	177.7	181.8	185.9	189.9	200.5	205.6	233.1
	El:	29.5	34.2	35.1	35.7	35.8	35.9	35.7	35.4	33.8	32.7	21.1
Spirits eL 13.5; B + 46.8	Sk:	-23.4	-12.6	-8.5	-4.5	-1.6	1.2	4.0	6.7	13.8	17.1	33.0
	Az:	143.3	160.2	166.4	172.2	176.6	180.7	184.8	188.9	199.6	204.7	232.5
St. Voigt (a.d.) eL 14.4; B + 46.9	El:	29.4	34.3	35.3	35.9	36.1	36.2	36.1	35.8	34.3	33.2	21.7
	Sk:	-24.1	-13.4	-9.3	-5.3	-2.4	0.5	3.3	6.1	13.2	16.6	32.9
St. Voigt (a.d.) eL 14.4; B + 46.9	Az:	144.4	161.4	167.6	173.4	177.8	181.9	186.0	190.0	200.6	205.7	233.3
	El:	29.7	34.4	35.3	35.9	36.1	36.1	35.9	35.6	34.0	32.8	21.1
St. Voigt eL 14.4; B + 46.9	Sk:	-23.4	-12.6	-8.4	-4.5	-1.5	1.3	4.1	6.9	14.0	17.3	33.2
	Az:	144.9	161.8	167.9	173.6	177.9	181.9	185.9	189.9	200.3	205.4	232.8
St. Voigt eL 14.4; B + 46.9	El:	29.7	34.2	34.1	34.6	34.8	34.8	34.8	34.3	32.6	31.7	20.4
	Sk:	-22.6	-12.1	-8.1	-4.3	-1.4	1.3	3.9	6.6	13.4	16.6	32.1
Stöckerau eL 16.3; B + 48.3	Az:	147.2	164.2	170.4	176.1	180.4	184.4	188.4	192.4	202.6	207.6	234.5
	El:	29.3	33.4	34.1	34.5	34.6	34.5	34.2	33.8	32.1	30.9	19.2
Stöckerau eL 16.3; B + 48.3	Sk:	-21.1	-10.4	-6.4	-2.6	0.3	2.9	5.6	8.2	14.6	17.9	32.8
Talsing eL 12.7; B + 47.3	Az:	142.6	159.3	165.5	171.1	175.5	179.5	183.6	187.7	198.3	203.4	231.5
	El:	28.7	33.6	34.6	35.3	35.6	35.7	35.6	35.4	34.1	33.0	21.9
Talsing eL 12.7; B + 47.3	Sk:	-24.3	-13.9	-9.8	-6.0	-3.0	-0.3	2.5	5.2	12.3	15.7	32.0
Villact eL 13.9; B + 46.6	Az:	143.6	160.6	166.9	172.7	177.0	181.2	185.3	189.4	200.0	205.2	232.9
	El:	29.7	34.6	35.6	36.1	36.4	36.4	36.3	36.0	34.4	33.3	21.6
Völsberg eL 15.2; B + 47.1	Sk:	-24.0	-13.2	-9.0	-5.0	-2.0	0.9	3.7	6.5	13.7	17.0	33.3
	Az:	145.3	162.4	168.7	174.5	178.8	182.9	187.0	191.1	201.6	206.6	233.9
Völsberg eL 15.2; B + 47.1	El:	29.9	34.4	35.3	35.8	35.9	35.9	35.7	35.3	33.7	32.4	20.6
	Sk:	-22.7	-11.8	-7.6	-3.7	-0.7	2.0	4.8	7.6	14.5	17.8	33.4
Wachstein eL 15.3; B + 48.8	Az:	146.2	163.1	169.2	174.8	179.0	183.3	187.0	190.9	201.2	206.2	233.3
	El:	28.4	32.6	33.4	33.9	34.0	33.9	33.8	33.4	31.8	30.7	19.4
Wachstein eL 15.3; B + 48.8	Sk:	-21.5	-11.1	-7.1	-3.4	-0.6	2.0	4.6	7.2	13.8	16.9	31.9
	Az:	145.6	162.8	169.0	174.8	179.2	183.3	187.4	191.4	201.9	206.9	234.2
Wachstein eL 15.4; B + 47.1	El:	30.0	34.4	35.3	35.7	35.9	35.8	35.6	35.2	33.5	32.3	20.4
	Sk:	-22.6	-11.6	-7.5	-3.5	-0.6	2.2	5.0	7.7	14.7	18.0	33.5
Wachstein eL 14.0; B + 48.2	Az:	144.5	161.3	167.4	173.1	177.3	181.4	185.4	189.4	199.8	204.8	232.4
	El:	28.5	33.0	33.9	34.5	34.7	34.7	34.6	34.3	32.8	31.7	20.5
Wachstein eL 14.0; B + 48.2	Sk:	-22.8	-12.4	-8.4	-4.6	-1.8	0.9	3.6	6.2	13.0	16.2	31.8
Wachstein eL 16.4; B + 48.2	Az:	147.2	164.3	170.5	176.2	180.5	184.5	188.5	192.5	202.8	207.7	234.6
	El:	29.4	33.5	34.2	34.6	34.6	34.6	34.3	33.9	32.1	30.9	19.2
Wachstein eL 16.4; B + 48.2	Sk:	-21.1	-10.4	-6.3	-2.5	0.4	3.0	5.7	8.3	15.0	18.1	32.9
Wachstein eL 14.9; B + 46.8	Az:	144.9	162.0	168.3	174.1	178.4	182.5	186.7	190.7	201.3	206.4	233.8
	El:	30.0	34.6	35.5	36.0	36.2	36.1	36.0	35.6	34.0	32.8	20.9
Wachstein eL 12.1; B + 47.5	Sk:	-23.2	-12.2	-8.0	-4.0	-1.0	1.8	4.6	7.4	14.4	17.7	33.5
	Az:	142.0	158.6	164.7	170.3	174.6	178.7	182.8	186.8	197.5	202.6	230.7
Wachstein eL 12.1; B + 47.5	El:	28.2	33.2	34.3	35.0	35.3	35.4	35.4	35.2	34.0	33.0	22.1
	Sk:	-24.6	-14.3	-10.3	-6.5	-3.6	-0.8	1.9	4.7	11.7	15.1	31.6

*Note: If you are missing the city you are living in, please visit <http://www.lyngsat.com/>